At-Large Membership and Ideas
By Hannah K. McNally
Mine Engineer
The Doe Run Company

The At-Large members of WOMEN IN MINING have, in the past, had difficulty staying connected, involved, and interested in the National Group. However, this year we are focusing on turning that around. In order to do so, we would like to share a little bit about ourselves with all of the National members.

Profile
We are a group that is comprised of about 25 people from around the United States with many different backgrounds, competencies, and experience levels. On the next page is a short profile of nine of our members that depicts where they are from and says a little bit about them.

Expectations from At-Large Membership
We surveyed our members to find out more about them and their expectations from National membership. Here are our results.

What we would like to get out of our National At-Large membership:
- Guidance from National to improve the cohesion between chapters
- Knowledge and awareness of legislation
- Networking opportunities
- Information on educational mineral awareness (i.e., student activities, pamphlets, etc.)
- Ideas and initiatives to get more women into the field
- Information on women’s growth in a male-dominated industry
- Opportunities to participate in events with other chapters

Information we would like to receive:
- Political information that relates to the industry
- Industry news
- Activities that other chapters are doing
- New activities and ideas that would educate and raise awareness of the mining industry to the public

We are excited to become more cohesive with the other Women In Mining chapters, and we look forward to working with them in the future!

See you in Nevada!
A SHORT PROFILE OF NINE AT-LARGE MEMBERS THAT DEPICTS WHERE THEY ARE FROM AND SAYS A LITTLE BIT ABOUT THEM.

- Company: Retired
  Position: Environmental Manager
  Experience: 32 years
  Location: Ely, NV

- Company: FLSmidth
  Position: Major Events / Trade Show Marketer
  Experience: 27 years
  Location: Salt Lake City, UT

- Company: Immersive Technologies
  Position: Global Marketing Promotions Manager
  Experience: 10 years marketing, 4 years mining
  Location: Salt Lake City, UT

- Company: JoSAFETY LLC
  Position: Owner
  Experience: 25 years
  Location: Indiana

- Company: Caterpillar
  Position: Continuous Improvement Manager
  Experience: 11 years
  Location: Peoria, IL

- Company: AECOM (legacy URS)
  Position: Senior Geologist
  Experience: 15 years
  Location: Overland Park, Kansas

  Position: Editor
  Experience: 8 years
  Location: Bonifay, FL

- Company: Stantec – Mining
  Position: Technical Editor / Client Services Coordinator
  Experience: 5 years
  Location: Tempe, AZ
FROM THE PRESIDENT
The Value of Attending the
WOMEN IN MINING National Conferences

When I became a member of the WIM California Chapter, I began attending Chapter meetings. At that time, it wasn’t really clear to me as to the part that the National organization of WOMEN IN MINING played in the over-all picture. I could see our own Chapter conducting classes at schools, hosting booths at conferences, and teaching and speaking to educators. But I wondered where WIM National fit into the picture? Soon I discovered the WIM website hosted by the Education Foundation, as well as the WIM National brochure. Both are very clear on the WIM goals, but it wasn’t until I experienced one of the annual conferences that I fully understood the commitment and enthusiasm that is so prominent in the entire organization.

Once I attended a National Conference, I discovered that it is very uplifting to meet members of other WIM Chapters and to develop a meaningful relationship with them. I learned what they, and their Chapters, are involved with. We exchanged ideas and I saw that members provided a bit of “mentoring” to groups that are just starting a new Chapter.

I also observed how National holds the Chapters accountable, which establishes a standard of expectation and excellence. Bylaws, as well as Policies and Procedures, are in place and it is clear what is expected of each Chapter. This prompts a strong organization.

As President of WIM National, I continue to be grateful for every WIM member and each Chapter. Your willingness to spend long hours to meet the goals of WIM and your Chapter is very much appreciated. Thank you for your outstanding service and please be encouraged to keep up the good work!

The Nevada Chapter has worked hard to plan this year’s National Conference and I want to express my deep appreciation for everyone’s efforts. With all of this said, please consider attending this year’s WOMEN IN MINING National Conference in Elko, Nevada at the Stockmen’s Hotel & Casino from April 9th to the 11th. If you can’t make it this year, make a note to be ready to register for the 2016 Conference, wherever it will be held. It is so worth it! I look forward to seeing you there.

Darlene Bray
President
WOMEN IN MINING National
The quarter has gone by quickly without a lot of fan fair. We did several fundraising events including the bar for the annual Winnemucca “Shooting The West Photography Symposium.” The symposium has been around for 27 years and has attracted some of the finest photographers to participate in classes and display their photographs. This year’s event was well attended and, by everyone’s recollection, a good one.

The Nevada Chapter of WIM tends bar for the awards ceremony every year. We offer a selection of fine wines as well as a variety of other refreshments. The director of the symposium is also a member of WIM and we have other members who work on the event.

As a member of WIM, I was recently in the right place at the right time and was asked to lecture to a college freshman class at the University of Nevada, Mackay School of Mines, in February. The professor wanted to stay at the SME Convention in Denver a day longer than expected, so he was unable to teach his freshman class on Modern Mining Techniques. It was a rush, with only a couple of days to prepare, but happily the 50-minute lecture was very well received.

The chapter has spent most of the quarter working on the WIM National Convention scheduled for April 9-11. Elko, a small town of 30,000 people in the northeast corner of Nevada, has been selected for this year’s event. It is home to ranching, farming, outdoor recreation and some of the largest gold mines in the world. The United States is the third largest gold producing country in the world and Nevada, by far, is the largest gold producing state. The heart of this gold production is the Carlin Gold Belt just west of Elko.
Elko is on Interstate 80 about 8 hours east of San Francisco by car. This makes it a perfect place to stop over when traveling I-80. The number of modern hotels in town is significant. Remember, these hotels also have to serve a wide variety of people coming in to sell to and service the mines. Instead of a cookie cutter chain hotel, the chapter picked one of the most historic hotels in town to have the meeting – the Stockman’s Hotel and Casino.

We have reserved a block of recently-remodeled rooms for the event and the hotel has everything we need to have a fun and productive meeting. Good restaurants, gaming, fun places to socialize and perfect facilities for the meetings. Just southeast of Elko is one of the most beautiful mountain ranges in Nevada, the Ruby Mountains, if you get tired of the 24-hour entertainment in town.

We are also proud to announce that Congressman Mark Amodei, who represents Northern Nevada, will be our special guest speaker at the dinner Saturday night.

We look forward to seeing everyone!

Rep. Mark Amodie
TEXAS CHAPTER REPORT
By Donna Thornton

We are official!!! The Texas Chapter finally received all of our IRS paperwork and the National Organization voted to recognize our group. We are very thankful for all of the help from so many of you. We currently have 31 members and are excited about our future.

In January, we were very excited to welcome Jackie Dorr and Scotty Norman to New Braunfels, TX. Thirteen attendees had a great time learning how to do many of the educational activities available on the WIM website. We had nothing but positive feedback and are looking forward to another training session in the Dallas area in the new future.

Upcoming events for the Texas Chapter include a presentation by Donna Thornton at the MSHA Spring Thaw. We have been given a 15-minute time slot to tell our fellow Texans what we are all about. Our group was also donated a booth at the upcoming South Central Joint Mine and Safety Conference to be held in Grapevine, TX in April. Our chapter is busy putting together a booth for our first conference outing.

At the January Training Session
Back (l-r) Sonny Holgrin, Donna Thornton, Kimberly Dennis, Jackie Dorr Middle (l-r) Janet Krolczyk, Ivone, Andres and Derick Del Rio, Scotty Norman, Sunny Christon Front (l-r): Kami Kretzschmar and Carter Whitney, Kay and McKenzie Derrich, and Sharla King

More pictures from the January Session
UTAH STUDENT CHAPTER REPORT
By Pam Hofmann

The University of Utah was pleased to be recognized by WIM National as having a student chapter in December of 2014. We have elected the following officers:

Crystal Darger, President
Natalia Healey, Vice President
Ashley Hodgson, Treasurer
Chloe Simons, Secretary
Department Advisor is Pam Hofmann

Outreach Activities
Two of our members are volunteering their time tutoring at an area school assisting students in math and science.

Our WIM chapter has been involved in a Girl Scout Night event on campus where we had them make mining cootie catchers and they drove remote control trucks to try to pick up candy. They also did the same activities at Alta View Elementary Science Night. Both events were well received by parents and students.

Service
Our student chapter initiated a Fund Drive for the Utah Food Bank collecting $311.18 to donate. Currently we are collecting items to donate to the Utah Deaf Association annual yard sale at the end of March.

Monthly Meetings
Monthly meetings are held the 4th Wednesday of each month during the academic year. We have been fortunate to have special speakers come from Zion’s Bank, US Gypsum, and faculty member Mary Ann Wright.

Field Trips
We have been able to offer two field trips to our group. One was a tour of Bingham Canyon Mine and lunch with their women engineers. The second was to Redmond Minerals in Redmond, Utah, an underground salt deposit.

It has been a great year and we are looking forward to growing our membership in the coming year!
This final quarter of the fiscal year has been a busy one for the EF Directors and many of us are looking forward to the beginning of the new fiscal year of 2015-16, hoping for some time off.

In January, Jackie Dorr and Scotty Norman travelled to San Antonio, TX to present a 6-hour session to members of our new Texas Chapter. The workshop was held at Martin Marietta’s Hunter Cement Plant in New Braunfels and showed those attending how many of the free, downloadable, hands-on activities found on the WIMEF website are conducted and, more importantly, how they relate to the importance of mining in our daily lives. Among the activities presented, and not pictured here, were (the old standby) Chocolate Chip Cookie Mining, Career Match, Flotation & Separation, and Making Your Own Toothpaste.

We hope that those who attended the session now feel more comfortable with the basic concept and will be sharing these and other activities with their fellow Chapter members. It is by sharing these activities with not only their Chapter members, but employees in their companies, at local community events and schools that the purpose of the lessons can be passed on for many years.

In February, many WIM members were at the SME Annual Conference in Denver, CO and took the opportunity to meet with the members of our Student Chapters who were in attendance, as well as prospective students from other mining schools to offer guidance, support and help to all of them. Our Director Georgene Robertson presented a paper on the “CEDAR of West Virginia” program at a session during the conference. Georgene is head of the West Virginia Chapter of the non-profit, educational organization.

Nevada Chapter swung into full steam in February to make plans for the upcoming WIM National Annual Meeting, April 9-11, in Elko, NV. Two EF Directors, Scotty Norman and Arloa Woolford, are on the planning committee. The committee agreed to waive the registration fee for all of the WIM Student Chapter members in an effort to help alleviate their costs associated with attending the meeting.
We are hoping that our web designer will have some work completed on our new website that we can review while in Elko. We can then move forward with updating and adding new features such as online payment options.

The EF Directors will be presenting the proposed updated Policy and Procedures Manual to WIM National for board approval during Part 1 of the meeting on the 11\textsuperscript{th} of April. The Manual will now be completely in sync with the Bylaws. Not many realize the scope of this job, which the Education Foundation took on in 2011. Bylaws were actually a breeze compared to the Manual! This is why it is so important to keep both your Bylaws and Policies as up-to-date as possible. The guideline calls for a review every three years, but my recommendation is that each Chapter and others have a committee that reviews them every year. These are the “ROCK” of WIM and each and every member should become familiar with not only their Chapter’s set, but those of National as well. Distribution to every WIM member is essential and if you do not have a copy, please ask your President for one. We are glad to be able to turn this committee over to a new Chapter, but will be ready to answer any questions.

MISSOURI S&T (ROLLA) STUDENT CHAPTER
By Elizabeth Shuman

In the past few months we have restarted and revamped our student chapter! We have elected new executive officers:

President Elizabeth Shuman  
Vice President Katherine Burke  
Treasurer Abigail Pfaff  
Secretary Deanna Millard

The officers have been planning some great outreach events and we are looking forward to a very busy year. We had our first meeting of the year March 3\textsuperscript{rd} and are in the process of planning the speaker for our April meeting.

On March 29, we had the local Girl Scout troop come to our Experimental Mine and we gave them a tour during their campus “Girls Can Do Anything” event. We highlighted STEM fields, and at the mine we talked about minerals, geology, mining, and the impact they have on their daily lives. We are in the process of planning a day to go to one of the local elementary schools and do a mining awareness activity with them. We are very excited to get the opportunity to work with the schools and we hope to expand the program next school year.
This quarter of the year is most often the busiest time for our WIM California Members. Schools are anxious to have guest speakers who can enhance the curriculum and inspire students to see the bigger picture related to their studies. Careers in mining and the ways minerals are used are not often discussed unless someone from the mining industry visits the class and explains their value. It is rewarding to watch how amazed students are when they have actually made a product out of a mineral. It is so worth the time and effort.

**WIM TEACHING**

**January 23** - Julia Lakes-Martinez and Sheri Haggard led a science class at YUCA Loma Elementary School for 4th - 6th grades. The school is located in Apple Valley. The kids learned a lot about how minerals can make a product – toothpaste.

**February 20** - Dinah Shumway and Deonna Robinson taught at the San Bernardino District Science Fair held at Granite Hills High School. They had three classes totaling 45 students. Two of the classes were made up of third graders, and one had a mixture of kindergarten and first grade youth. They set up a mineral display and talked about the properties of minerals, why we use them, what they are used for, where they come from, and how we get them. Representatives from the Victor Valley Gem & Mineral Club, Susan Cooper and Tracy Cox did the cookie mining exercise. They did a great job. After cookie mining, using the WIM magnifying glasses the kids could look at and handle the minerals provided in kits. The mineral display was from the Mineral Clubs “Petrified Pups” group which is designed for younger kids. Dinah saw that there were minerals that WIM could provide to “beef up” the display and we plan to provide them soon to the club.
March 11 - Julia Lakes-Martinez and Sheri Haggard presented the toothpaste activity to two fifth grade classes and one special education class at Cameron Elementary, with about 75 total students participating. All of the kids loved the activity and were also able to take home samples of Talc from a supply that was donated by Dinah Shumway. Lakeshya Mattis, the teacher in the picture with Julia and Sheri, was very pleased with the presentation.

Also on March 11th in the evening, Julia Lakes-Martinez, Darlene Bray and Julia Bonser participated in a Teacher Workshop at the Mojave Environmental Education Consortium. We gave kits with toothpaste and cookie mining supplies to 21 teachers who attended. They ranged from kindergarten to high school teachers.

On March 14 and 15, Gena Oliver and Juanita Czupor had a WIM booth at the Turlock Gem & Mineral Show. They conducted about 500 toothpaste lessons with the children that stopped by the booth. They also gave out 12 toothpaste kits to teachers and other Gem and Mineral clubs in California. Driving 5-½ hours to get to and from Turlock shows the dedication that our wonderful members have.
WIM MEETINGS

February 9 - the Chapter held a meeting at the Victor Valley Gem & Mineral Club. After the general meeting, attendees had a chance to create some delightful jewelry with Cyndy Mandell and Lois Papner explaining the value of what each person was creating. Cyndy and Lois are very active members of the Gem & Mineral Club along with being strong supporters and members of WIM.

March 10 - WIM California held their Annual Meeting at the CEMEX Lyle Creek Plant in Rialto. At that meeting, new officers were elected and leaders were identified for various committees. New members Christina Corteino and Alanna Lungren joined us all the way from Sacramento.
With the end of the academic year approaching, members have begun campaigning for Women in Mining officers for the 2015-2016 calendar year. It is the goal of the outgoing officers that the newly elected officers will continue to build and strengthen the University of Kentucky Student Chapter throughout their term.

**Education Outreach Events**

Before the fall semester began, members of Women in Mining attended the Engineering Freshmen Orientation to welcome the new class of freshmen mining engineers. Members were able to answer questions as well as provide advice for a successful first year of college within the engineering department.

During the first few weeks of the fall semester, members of WIM participated in a mentoring program in collaboration with SME. Each freshman was partnered with an upperclassman who would serve as a mentor to the freshman. The goal of the program was to ensure that new students had every available resource in order to help them be successful during their first year in the mining engineering department. Members of WIM also participated in the University of Kentucky College of Engineering Pancake Breakfast. Members set up a booth on campus in order to talk to students and parents about mining engineering and the various organizations and opportunities that the mining department offers.

The main educational outreach event of the fall semester was the Career Fair at Southern Middle School in Lexington. During this event more than 200 eighth-graders were exposed to mining and mining engineering. As part of the requirements for participating in the Career Fair, students were required to obtain the answers to a number of questions about each of the careers represented. These questions allowed the students to learn what kind of education a mining engineering degree requires as well as how math, science and technology are incorporated in the everyday activities of the job.

At the beginning of the spring semester, two representatives from the University of Kentucky Student Chapter were able to attend the 2015 SME Annual Conference and Expo in Denver, Colorado. The main educational outreach event of the spring semester was the annual University of Kentucky Engineering Day. With an entire classroom set aside for mining engineering, several students volunteered their Saturday morning to talk to parents and students from schools throughout the state about engineering and more specifically mining engineering. On hand for the event was the mining engineering department recruiter, a working model hydrocyclone, a coal loading contest, mine rescue gear and a beam building demonstration.

As the spring semester comes to an end, the UK Student Chapter is looking to the future. As new officers are elected, the primary focus in the coming year will be growth; included in this focus is to increase membership and to expand community involvement through outreach programs that educate individuals on the importance of mining engineering and the minerals industry.
OUTREACH

GEOLOGY DAY AT WESTERN MUSEUM OF MINING & HISTORY
Article by Betty Mahaffey

Sharon Kirts, Betty Mahaffey, and Marriott Smart (L-R) participated in the Geology Day program at the Western Museum of Mining & History in Colorado Springs on January 3. We set up a table with literature about WIM and the mining industry. The people that stopped by were very interested in the mining industry, and geology in particular. The young ladies that stopped by the table were most interested in the brochure describing the cosmetics made from minerals. The next most popular item of interest was the Society for Mining, Metallurgy & Exploration (SME) mineral box which has samples of minerals that are used in our everyday lives such as coal for energy, and aggregate which is used for road gravel. They were particularly interested in the gold samples, and were very surprised that the samples weren’t pure gold and shiny, but looked like everyday rocks!

The Geology Day program was very well attended and the displays were fun and interactive. People were very interested in WOMEN IN MINING and what we have to offer. It was an excellent way to give positive information about the extractive minerals industry and a lot of fun for all involved.

WIM EDUCATION FOUNDATION WORKSHOP
Article by Jackie Dorr

On January 16, members of the newly-ratified Texas Chapter of WOMEN IN MINING gathered at Martin Marietta’s Hunter Cement Plant in New Braunfels for a workshop and training session. Led by WOMEN IN MINING Education Foundation (WIMEF) Directors Scotty Norman (WIM-Nevada) and Jackie Dorr (WIM-Denver), the workshop was designed to introduce new members to the free downloadable hands-on activities found on the WIMEF website which they can share with their local teachers, classroom students, scouts, 4-H clubs, company employees and others. More than a dozen activities were planned for the day-long workshop, where attendees were provided with all the materials, supplies and instructions on how the message of the importance of mining to our daily lives can be shared through simple demonstrations, many of which use food products. (See also Texas Chapter Report, page 6 and WIMEF Report, page 8.)

(cont. on next page)
Popular activities during the workshop included:

Chocolate Chip Cookie Mining - which leads participants through the economics of mining from investments before the operation begins, costs associated with equipment and labor, and final reclamation. The entire cookie represents the ore body, the chips represent the mineral being mined, and toothpicks and paper clips are used as equipment.

Career Match – a game where participants are given a card with a job description of a career associated with the minerals industry, which they then try to match to one of 30 careers that are posted on individual signs around the classroom.

Flotation and Separation - where the separation of minerals based on the alteration of properties through flotation is demonstrated using peanuts, raisins, drinking water and soda water.

These and many other mining concept activities can be found on WIM’s website at: http://womeninmining.org/edu-activitiesAlpha.asp

MEETINGS WITH GUEST SPEAKERS

January 21
Speaker: Benjamin Teschner

Topic: Goldfields in Mali: Exploring for Gold during the Collapse of a State. Mr. Teschner presented a fascinating account of Goldfields’ interaction with the community prior to and during the 2012 coup d’état in the Republic of Mali in West Africa. Sustainable development programs were firmly in place when Goldfields departed.

February 18
Speaker: Helene Hughes, Director of Development, STEM School and STEM Academy of Highlands Ranch Charter School.

Topic: Ms. Hughes discussed the educational emphasis of the junior and senior high schools, and the extracurricular activities that support the STEM academics. WIM members have scheduled workshops with the school’s classroom students and teachers.

March 18
Speaker: Ms. Betty Gibbs, Executive Director, Mining & Metallurgical Society of America.

Topic: Interactive conversation about changes to the mining industry since the 1960s and 70s when Ms. Gibbs obtained her mining engineering degrees from Virginia Tech and the Colorado School of Mines. Betty was the first woman to work underground at the Climax Molybdenum Mine. The lively conversation emphasized the full circle we’ve come with newest generation of women entering the industry and the work we continue to do informing the next generation of students to consider the minerals industry as a career option.
The next National Quarterly will be published **July 1**

Chapter Reports are due **June 15**